CLAIMS

What is claimed is:

- 1. A membrane material for fabric structures having enhanced reversible thermal properties comprising a basic woven fabric which is coated at least on one side with a polymeric compound containing finely divided phase change materials.
- 2. A membrane material according to claim 1, wherein the polymeric coating compound containing the finely divided phase change materials consists of an elastomeric material.
- 3. A membrane material according to claim 1, wherein the woven fabric is coated on both sides with a polymeric compound which contains the finely divided phase change material.
- 4. A membrane material according to claim 1, wherein the woven fabric is coated on one side with a polymeric compound which contains the finely divided phase change material and no coating is applied to the other side of the fabric.
- 5. A membrane material according to claim 1, wherein the woven fabric is coated on one side with a polymeric compound which contains the finely divided phase change material and is coated on the other side with a polymeric compound which does not contain phase change material.
- 6. A membrane material according to claim 1, wherein the phase change material is a crystalline alkyl hydrocarbon.
- 7. A membrane material according to claim 1, wherein the phase change material is a salt hydrate.
- 8. A membrane material according to claim 1, wherein the polymeric coating compound comprises phase change material in a quantity of up to 60 wt.%, based on the total weight of the polymeric compound.
- 9. A membrane material according to claim 1, wherein the phase change materials have melting points in the range between 30 °C and 50 °C.
- 10. A membrane material according to claim 1, possessing a latent heat storage capacity of up to 150 kJ/m².
- 11. A membrane material according to claim 1, wherein the polymeric coating compound contains flame-retarding additives in addition to the phase change material.

12. A membrane material according to claim 1, those translucency changes in connection with the phase transition of the phase change material.